

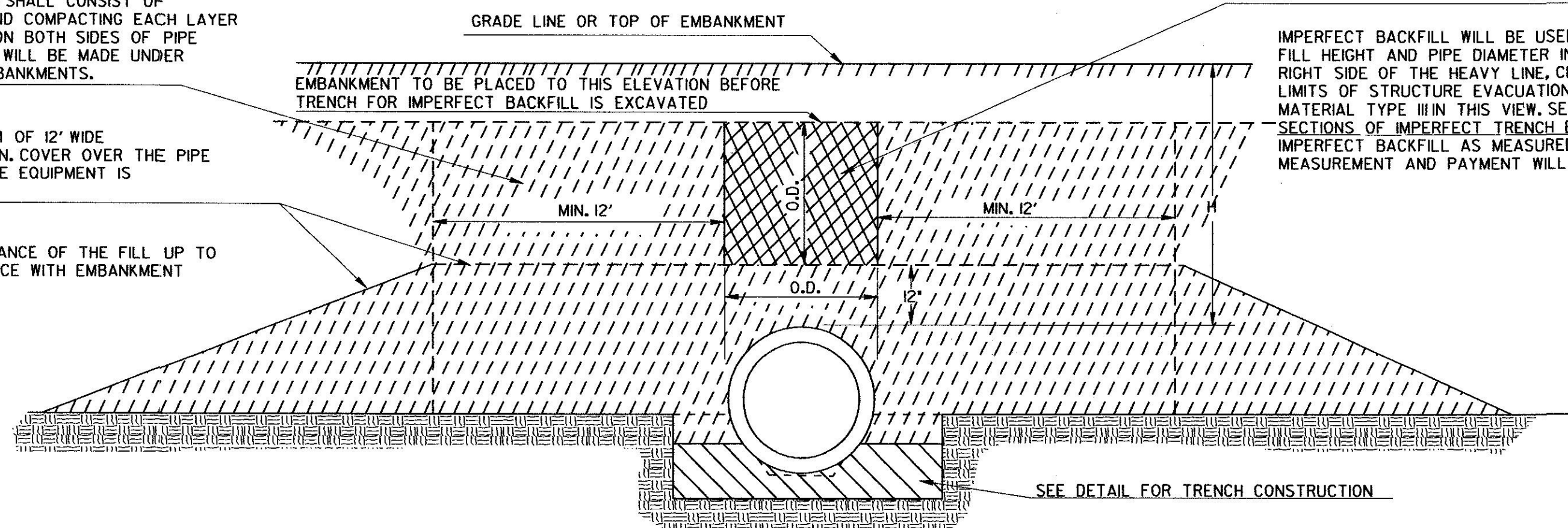
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NH000-0085-02(153)	365	480

NORMAL BACKFILL

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

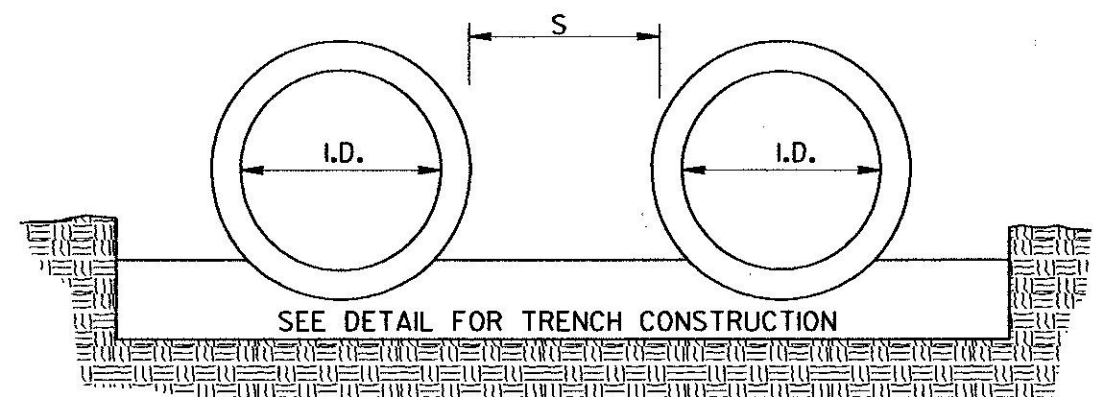
NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE
ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE
AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS
ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

LONGITUDINAL SECTION OF IMPERFECT TRENCH
BACKFILL AND BACKFILL METHODS

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF
FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. 1 FALLS ON THE
RIGHT SIDE OF THE HEAVY LINE, CROSS HATCHED AREA SHOWS
LIMITS OF STRUCTURE EVACUATION AND IMPERFECT BACKFILL
MATERIAL TYPE III IN THIS VIEW, SEE DETAILS BELOW CROSS
SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF
IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE.
MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

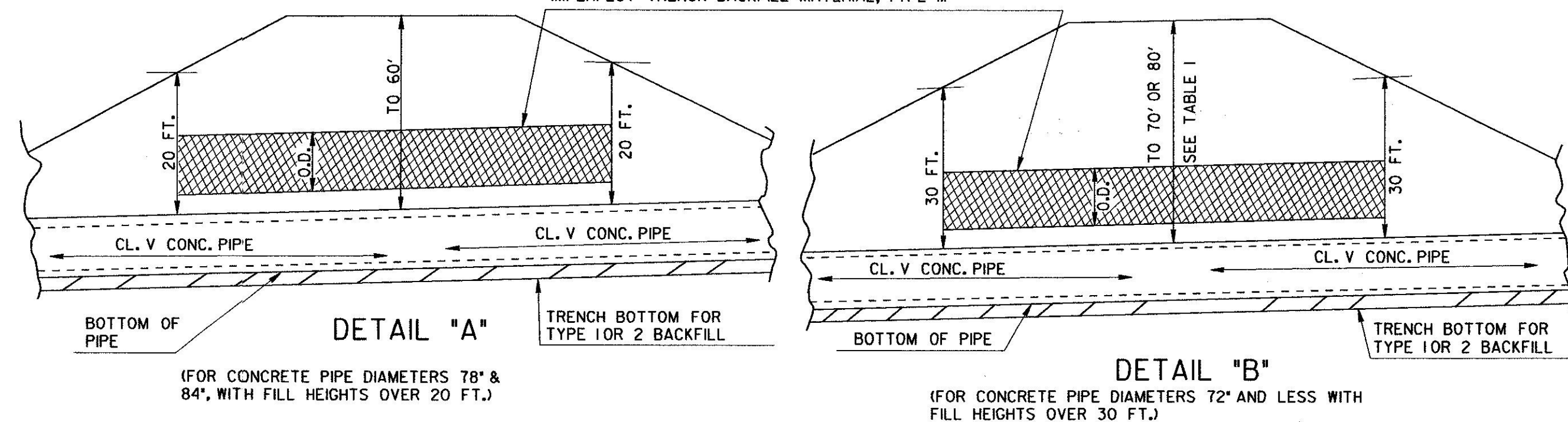


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

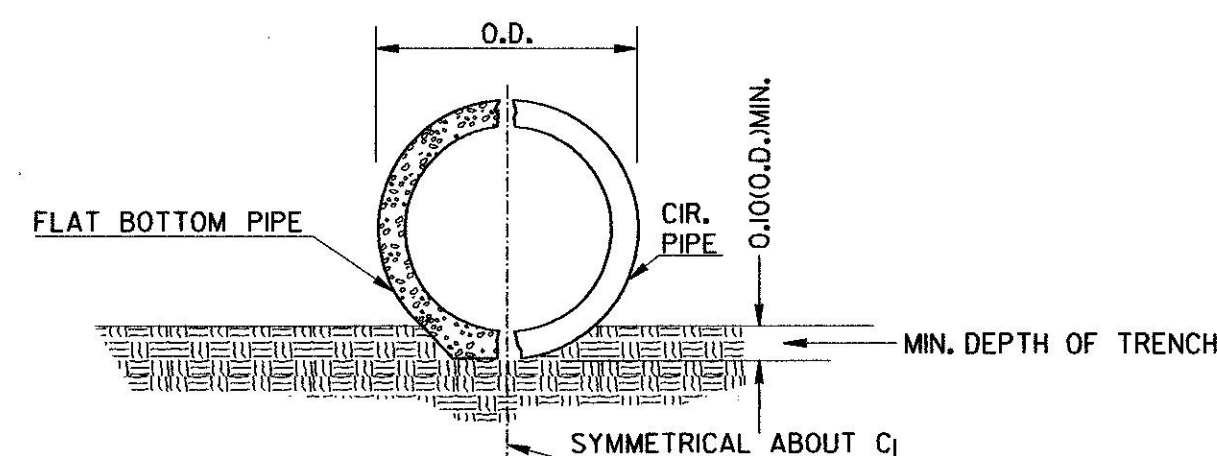
NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS,
S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS,
LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT
OF PIPE.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION
& MEASUREMENT FOR STRUCTURE EXCAVATION &
IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III

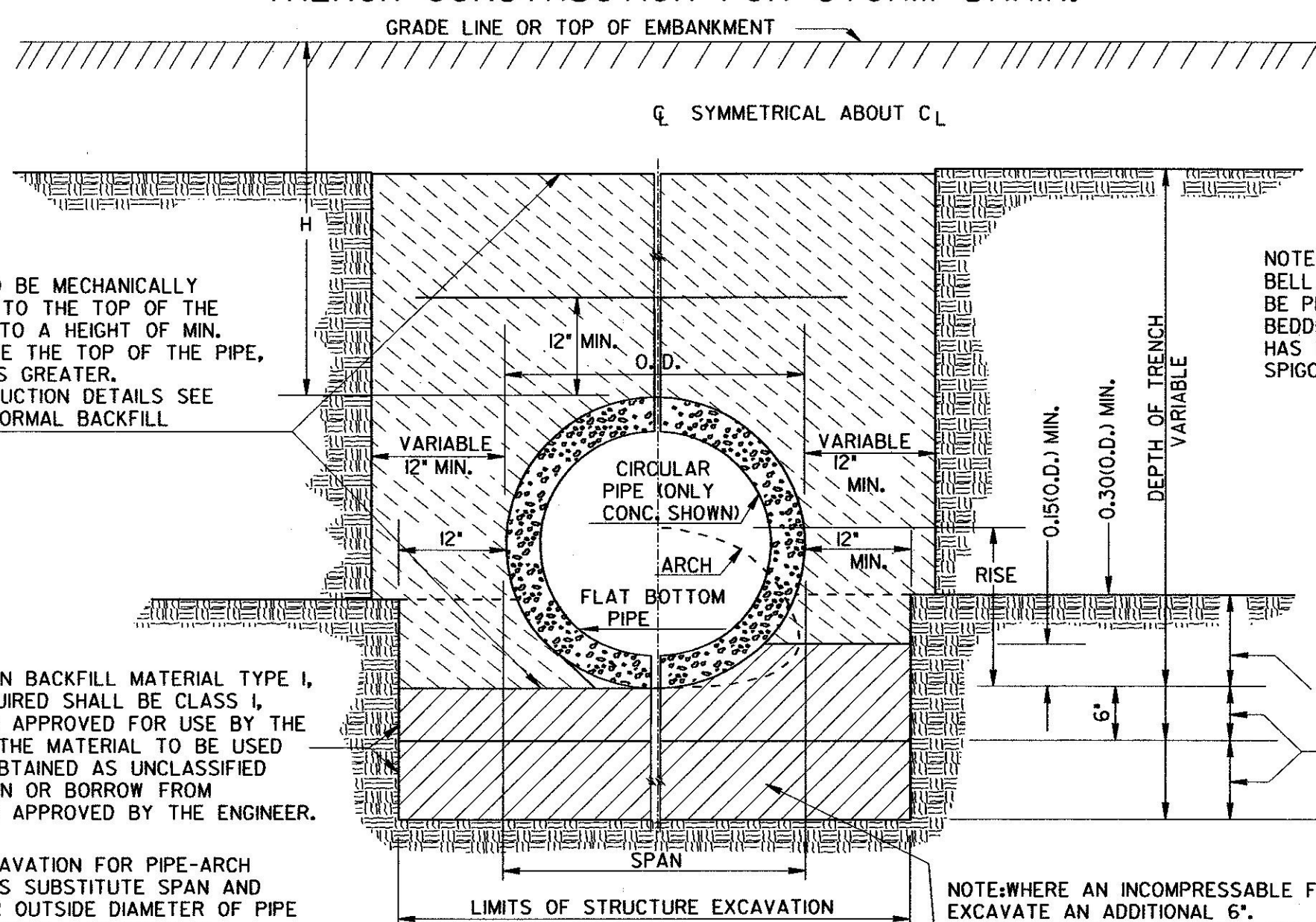


TRENCH CONSTRUCTION FOR SIDE DRAIN



NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSIBLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

TRENCH CONSTRUCTION FOR STORM DRAIN.



BACKFILL TO BE MECHANICALLY
COMPACTED TO THE TOP OF THE
TRENCH OR TO A HEIGHT OF MIN.
COVER ABOVE THE TOP OF THE PIPE,
WHICHEVER IS GREATER.
FOR CONSTRUCTION DETAILS SEE
NOTE FOR NORMAL BACKFILL.

NOTE:
BELL HOLES SHALL
BE PROVIDED IN
BEDDING IF PIPE
HAS BELL AND
SPIGOT JOINTS.

NOTE: TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

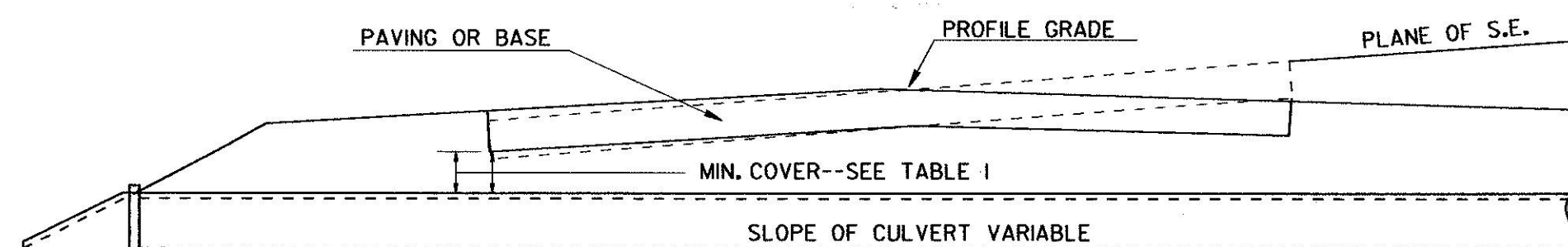
FOUNDATION BACKFILL MATERIAL TYPE I,
WHEN REQUIRED SHALL BE CLASS I,
OR II SOILS APPROVED FOR USE BY THE
ENGINEER, THE MATERIAL TO BE USED -
WILL BE OBTAINED AS UNCLASSIFIED
EXCAVATION OR BORROW FROM
LOCATIONS APPROVED BY THE ENGINEER.

FOR EXCAVATION FOR PIPE-ARCH
CULVERTS SUBSTITUTE SPAN AND
RISE FOR OUTSIDE DIAMETER OF PIPE
IN HORIZONTAL AND VERTICAL
DIMENSIONS SPECIFIED IN DETAIL.

NOTE: PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.

NOTE: WHERE AN INCOMPRESSIBLE FOUNDATION EXISTS,
EXCAVATE AN ADDITIONAL 6".
WHERE AN UNSTABLE FOUNDATION MATERIAL IS
ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS
SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



NOTE:

2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

[illegible]